Observations of Comet Winnecke 1886, made at Sydney Observatory with the $11\frac{1}{2}$ Equatorial and filar micrometer. (Communicated by H. C. Russell, B.A., Government Astronomer.)

	No. of Comp.	01	က	Ŋ	8	01	01	10	∞	10	10	7	63	01	ν,	OI	01	3	01	2
(Communication of II. C. Interstor, D.A., Greenment Assistanter)	position.	, ,	102 52 47.97	103 36 19:54		105 46 39.83			109 25 46.28		110 52 23.33		112 21 21.83		113 45 46:00	114 25 41.10	115 7 15.17	115 47 53.25	117 46 26.43	118 24 12.53
	Comet's position.	h m s	14 18 16:51	14 22 40.18		14 36 7.53			14 59 59 19		15 10 0.20		15 20 46.12		15 31 20.26	15 36 43.15	15 42 19.64	15 48 0.54	16 36.57	16 11 38.36
	Diff. of Comet from Star. B.A. N.P.D.	+ 10 8'62	+ 2 36.99	+ 2 4.53	- 4 9.45	+ 3 41.27	+ 4 22.73	96.22 6 -	+ 4 12.89	+ 3 57.65	98.11 11+	- 9 28.14	+22 44.99	-327.84	+18 59.32	+ 4 19.70	+ 8 7.86	+ 0 48.59	+ 8 42.33	+ 4 28.67
	Diff. of Come R.A.	m s - o 27.32	- 0 51.30	+ 3 26.80	+ 6 29.75	+ 1 52.34	+ 4 39.38	+ 1 44.25	-545.51	+ 1 37.38	- 2 10.40	+ 4 29.51	+ 10 58.20	- 0 49'25	- 2 12 66	- 2 21.18	- 4 27.83	-358.30	91.81 0 +	+ 0 23.19
	Comparison Stars. R.A.	;; , o	86.01 05 201	103 34 15.01		105 42 58.56			109 21 33.39		110 41 11.47		111 58 36 84		113 26 46.68	114 21 21.40	114 59 7:31	115 47 4.66	117 37 44 10	So + 08:17 118 19 43:86 + 0
		h m s	14 19 7.81	14 19 13:38		14 34 15.19			15 5 44.70		15 12 10.60		15 9 47.92		15 33 32.92	15 39 4.33	15 46 47.47	15 51 58.84	16 5 18.41	16 11 15.17
	Star's Name.	25809 Lalande	4777 B.A.C.	5955 Wash. Gen. Cat.	26481 Lalande	*27606 Lalande	27033 Lalande	27272 Lalande	8261 Cape Cat. '80	27567 Lalande	6282 Wash, Gen, Cat.	27980 Lalande	†8301 Cape Cat. '80	28282 Lalande	8516 Cape Cat. 'So	8559 Cape Cat. 'So	8628 Cape Cat. 'So	8676 Capo Cat. 'So	8807 Cape Cat. '80	2 8857 Cape Cat. 'So
	Sydney M.T.	h m s 7 39 18	7 23 13	7 35 32	7 30 53	7 35 33	7 16 3	7 31 24	7 45 33	7 28 40	7 25 34	8 16 17	8 57 44	7 28 3	8 15 8	7 34 18	7 39 II	7 33 52	7 34 9	7 31 2
	Date 1886.	dept. 2	7	8	10	II	14	15	91	17	18	20	20	21	22	23	24	25	28	29

* This star was observed with the Sydney Transit Instrument on June 25, 1886. † The difference between the comet and an $8\frac{1}{2}$ mag, star first observed, then the difference between the $8\frac{1}{2}$ mag, star and 8301 Cape Cat. '80.

1886, Sept. 1.—Comet seen; only approximate position obtained.

Sept. 2.—Comet very faint as close to moon; a diffused coma, no decided nucleus.

Sept. 8.—Strong moonlight; comet much more condensed than on Sept. 2. Coma small, about $\frac{1}{4}$ in diam.

Sept. 9.—Comet much brighter even with increased moon-light; a suspicion of a nucleus. Observed with a star not in catalogue.

Sept. 10.—Comet extremely faint, and difficult to observe owing to haze.

Sept. 14.—Comet brighter; a suspicion of a nucleus.

Sept. 15.—Comet much brighter; coma about 1' in diam.

Sept. 20.—Comet brighter; condensed in the centre, with a very faint nucleus.

Sept. 21.—Comet bright, but no very distinct nucleus, but condensed in the centre. At 8^h 2^m 13^s S.M.T. the centre of the comet passed over a 9-mag. star. The star did not diminish in brightness, but appeared to have a slight haze round it. Three other 9-mag. stars in the field. A very faint nucleus was thought to be seen in glimpses; but if there at all it must be very faint.

Sept. 22.—Comet not so bright as last night. Difference of declination determined by the circle.

Sept. 24.—Night particularly bad; comet much fainter than it has been. A glimpse of a nucleus.

Sept. 25.—Evening very hazy; haze stopped further observations.

Sept. 28.—Comet faint; coma diffused, with a faint nucleus. Sept. 29.—Comet fainter.

Telescope 11½-inch Equatorial, with filar micrometer.

Observations of Comet discovered by Finlay at the Cape, Sept. 26, 1886, made at Sydney Observatory with the 11½-inch Equatorial and filar micrometer.

(Communicated by H. C. Russell, B.A., Government Astronomer.)

Date. 1886.	Sydney M.T.	Star's Name.	Difference of Co Comet—Star. R.A.	Comet-Star.		
Sept. 30	h m s 10 0 53	9391 Cape Cat. '80	m s + I 45.7	- 7 44.51	I	
Oct. I	8 48 47	9391 Cape Cat. '80	+4 10.9	- 5 11.66	5	
5	8 26 0	9504 Cape Cat. '80	+4 12 70	+13 40.92	6	
. 11	9 17 49	9766 Cape Cat. '80	-7 51.28	- 7 52·87	4	
12	8 2 21	9766 Cape Cat. '80	-457.38	- 6 59·78	10	

Sept. 30.—Comet faint.

Oct. 5.—Moonlight; comet faint.

Oct. 7.—Comet observed with a star not in catalogue.